

seminars

CERN PARTICLE PHYSICS SEMINAR

Tuesday, December 17
16.30
Auditorium

"The muon - a new tool in solid state physics"

by A. Schenck / Eidg. Techn. Hochschule, Zurich

Abstract : We discuss the phenomena associated with the time dependent evolution of the polarization of positive muons implanted in solids and their experimental detection. In particular, it is demonstrated how muon spin rotation studies can yield valuable information concerning microscopic features of ferromagnetic and antiferromagnetic substances, as well as internal field distributions in type II superconductors. Related problems concern the charge screening of muons in metals, μ diffusion under various conditions, and the influence of critical phenomena in the neighbourhood of phase transitions on the muons spin polarization. Muonium formation in nonconducting solids and semiconductors offers the possibility to study hydrogenlike impurity centers and associated solid state properties in a much wider variety of substances.

CERN COLLOQUIUM

Tuesday, January 7
16.30
Auditorium

"Search for Parity Violation in Nuclear Interactions"

by H. Frauenfelder / University of Illinois at Urbana-Champaign

Abstract : The weak interaction should contribute a small (about 10^{-7}) parity-violating component to the force between nucleons. Such a component has been seen in nuclear decays, but comparison between theory and experiment is difficult. We have therefore started a search for the parity-violating component by looking for a helicity dependence of the total cross section for pp, pd, and pBe scattering. The limits obtained so far at 15 MeV and 6 GeV rule out some theories and are close to the theoretically predicted values.

PRESENTATION TECHNIQUE

Mercredi 18 décembre
de 09h.00 à 16h.00
Parking PTT
(près Bât. ADM)

RADIALL (F) expose son programme de production :

- connecteurs multicontacts, connecteurs pour circuits imprimés,
- connecteurs coaxiaux standards, miniatures, subminiatures,
- guides d'ondes,
- relais, commutateurs, atténuateurs, charges, coupleurs coaxiaux, wattmètres,
- accessoires microondes coaxiaux,
- câbles coaxiaux montés surmoulés.

Langue : français.

Renseignements : M. Diraison/FIN/4585

ccni information

LOOKING FOR ...
ON RECHERCHE ...

- On Monday 9 December, somebody damaged the right front-door of my car - a yellow Alfa Romeo GE 45851 - on the parking of Rest. No2 - outside building 513. If anybody noticed the accident, please inform Mr. Hovland - Tel. 5176.
- La personne qui aurait emprunté, soit à la bibliothèque, soit à M. Maire le livre technique : Les Plastiques - Guide pratique de l'utilisateur, est priée de bien vouloir le rapporter ou contacter MM, R. Maitre (2184) ou B. Sakkas (4186).